

SUBJECT INDEX Vol. 112A, Nos. 1-4

- Absorption, 619
- Acclimation, 131, 273
- Acetylcholine, 387
- Acid exposure, 123
- Acid hydrolases, 321
- Acid saline, 123
- Actography, 611
- Adaptation period, 365
- Adaptation, 167, 573
- Adenylic nucleotides, 131
- Adipokinetic hormone, 143
- ADMR, 511
- Adrenaline, 601
- Adrenergic, 35
- Aerobic, 1
- Age differences, 137
- Alimentary tract, 619
- Alkaline phosphatase, 119
- Alkaloid, 187, 197
- Allometry, 285
- Altitude, 411
- Amino acid, 537
- Amino acids, 155, 441
- Amphibia, 29
- Amphisbaenia alba*, 487
- Amphisbaenia*, 487
- Amylase, 167
- α -Amylase, 55
- ANAE (acid α -naphthyl acetate esterase) marker, 495
- Anaerobic swimming, 1
- Anaerobic, 285
- Anaerobiosis, 433
- Annual cycle, 321
- Anopheles quadrimaculatus*, 553
- Antagonist, 103
- Artemia*, 123
- Arterial hypertension, 313
- Arteriovenous anastomoses, 355
- Arteriovenous difference, 591
- Arthropods, 225
- Artificial rearing, 629
- Ascorbic acid, 417
- Atherosclerosis, 151
- ATP turnover, 295
- Autonomic, 35
- Avaian pectoralis*, 295
- Average daily metabolic rate, 59
- Barnacle parasite, 327
- Basophilic and eosinophilic hemocytes, 81
- Bat, 43
- Behavior, 273
- Binding studies, 347
- Bird, 137
- Bivalvia, 327
- Blood biochemistry, 455
- Blood chemistry, 137
- Blood flow, 591
- Blood mononuclear cells, 495
- Blood parameters, 67
- BMR, 479
- Body mass, 215
- Body weight, 161
- Bombyx mori*, 91
- Brain development, 161
- Brain weight, 161
- Breathing frequency, 43
- Broodstock, 417
- Brown bear, 495
- Brugia malayi*, 553
- Buffering mechanisms, 559
- Buffers, 559
- Burst, 1
- Buthus indicus*, 225
- CA activity, 91
- Caecum, 573
- Calcium, 339, 425, 537
- Camel, 67
- cAMP, 379
- Cane toad, 387
- Capacity, 285
- Captivity, 455
- Carbohydrates, 441
- Carbon dioxide, 119
- Carbonic anhydrase, 111
- Carcharhinus*, 35
- Cardiac compliance, 313
- Carnivorous, 55
- Carnivore, 629
- Castanospermine, 187, 197
- Catfish, 379
- CCK 8, 403
- CCK, 103
- Cell proliferation, 573
- Cellular immune response, 495
- Central nervous system, 247
- Chick, 339
- Chiroptera, 43
- Chlorzalamide, 111
- Cholecystokinin, 103
- Cholesterol, 151
- Cholinergic pathways, 403
- Cholinergic, 35
- Chronic exposure, 273
- Circadian, 339
- Circadian rhythms, 179
- Collagen, 463
- Colon, 573
- Compound diet, 417
- Condition index, 137
- Conservation, 619
- Copper, 273
- Corn diet, 161
- Crab, 131
- Crayfish, 179
- Critical swimming speed, 1
- Crocodile, 285
- Crocodylus niloticus*, 99
- Crustacea, 123
- Cucumaria frondosa*, 463
- Cupriuria, 503
- Cyanate, 111
- Cytotoxic hemocytes, 81
- Daily torpor, 59
- Desert adaptation, 511
- Desmosine, 151
- Development, 91
- Diet, 455
- Digestibility, 511
- Digestive enzymes, 233
- Digestive strategy, 167
- Dipeptidase, 55
- Dipetalogaster maximus*, 143
- Diplopoda, 611

- Disaccharidase, 187
- Discontinuous density gradient separation, 81
- Diurnal and nocturnal cycles, 611
- Diurnal O₂ consumption, 265
- Diurnal, 305
- DNA, 527
- Domestic sheep, 547
- Dopamine, 387
- DRG neurons, 21
- Duck, 295
- Eel, 131
- EGF, 527
- Egg character, 585
- Eggs, 417
- Electrolytes, 119
- Electrophoretic characterization, 225
- ELISA, 347
- Embryonic neurons, 21
- Embryos, 99
- Encapsulation and melanization, 553
- Endocrinology, 179
- Endurance, 1
- Energy assimilation, 479
- Energy budgets, 479
- Energy savings, 59
- Environmental conditions, 433
- Environmental pollution, 455
- Enzymes, 285, 455
- Epididymis, 321
- Epileptiform activity, 517
- Epitope, 347
- Erythroid cell maturation, 487
- Erythroid cells, 487
- Erythroprotein, 355
- Esterase, 167
- Euryhaline, 123
- Eutherian mammals, 215
- Excitatory amino acids, 517
- Exercise, 285
- Exocrine gland, 29
- Exocrine pancreas, 103
- Extra-renal potassium homeostasis, 601
- Eyestalk, 179
- Faeces, 441
- Fast skeletal muscle, 111
- Fat body glycogen, 233
- Fat body, 143
- Fatty acids, 417, 441
- Fatty liver, 503
- Femur, 425
- Fermentation, 619, 629
- Fibre, 365, 573
- Fibrillar collagen, 463
- Field potentials, 387
- Filarial parasites, 553
- Fish, 75, 273
- Fixed velocity tests, 1
- Flies, 559
- Foetal sheep, 601
- Food intake, 511
- Forskolin, 379
- Free-living, 137
- Freeze-sensitive, 207
- GABA, 387
- GABA-transaminase, 247
- GABA_A receptors, 247
- GABA_B receptor, 247
- Gallbladder, 403
- Gamma-aminobutyric acid (GABAA), 247
- Gas release, 629
- Gecko, 305
- Germinal vesicle breakdown, 379
- Gestation, 527
- Gestation length, 215
- Gills, 35
- α -Globin chain allele, 547
- Glucose, 67
- Glutamic acid decarboxylase (65 and 67 kDa species), 247
- Glutathione, 155
- Glycolysis, 285
- Glycosaminoglycan, 463
- Glycosidase, 187, 197
- Glycosidases, 321
- Goats, 591
- Guinea pig, 411
- Gut content, 207
- Gut microbes, 629
- Haemocyanin, 327
- Haemoglobin polymorphism, 547
- Haemolymph, 179
- Haemolymph proteins, 585
- Haemolymph trehalose, 233
- Harbour seal, 455
- Harderian gland, 29
- Hatchlings, 99
- Health, 67
- Heat production, 433
- Heat stress, 119
- Heating and cooling rates, 305
- Hemiptera, 197
- Hemocyanin, 225
- Hemoglobin oxygen affinity, 411
- Hemoglobin synthesis, 487
- Hemosome, 487
- Hemosome formation, 487
- Hepatopancreas, 417
- Hibernation, 495
- High altitude, 43
- High performance liquid chromatography, 225
- Hindgut, 619
- Histidine, 503
- Histochemistry, 29
- Histology, 29
- Histopathology, 273
- Homology, 225
- HPLC analysis, 91
- 5-HT receptors, 161
- hub/hub*, 527
- Hybrid striped bass, 155
- Hydroxy proline, 151
- Hypercholesterolaemia, 503
- Hypercholesterolemia, 151
- Hypo-hyperosmotic regulator, 123
- Hypocupremia, 503
- Hypophysectomy, 29
- Hypoxia, 43, 327, 411
- Hypoxic tolerance, 43
- Hypoxic ventilation, 411
- Ice-nucleating agents, 207
- Ictal phase, 241
- Ileum, 403
- Increased velocity tests, 1
- Inhibitor, 187, 197
- Inhibitors, 565
- Insect, 187, 197
- Interdigestive period, 103
- Intestinal topography, 55
- Intracellular parasites, 553
- Invertebrates, 179
- Ion channels, 21
- Ion regulation, 123

- Ischaemia, 295
 Isolated gills, 565
 Isomaltase, 187

 Japanese quail, 151
 JH biosynthesis, 91

 KK-42, 91

 Lactate, 111
 Lactation, 527, 591
 Lactosucrose, 629
 Lagomorphs, 619
 Lambs, 601
 Larvae, 91, 327
 Larval intermolt period, 233
 Laser Doppler, 355
 LD₅₀-tests, 1
 Lecithotrophy, 327
 Left ventricular hypertrophy, 313
 Lentic water, 167
 Lepidoptera, 197
 Life histories, 215
 Life style, 479
 Lipid class composition, 441
 Lipids, 455
 Lipophorins, 143
 Litter size, 215
 Liver enzymes, 67
 Liver, 321
 Lizards, 321
 Locomotor activity, 611
 Lymphocyte blast transformation (LBT), 495
 Lysate, 547
 Lysosomes, 321

 Magnesium, 425, 537
 Malnutrition, 161
 Mammary gland, 527, 591
 Marsupial, 59
 Maturation-inducing steroid, 379
 Melatonin, 179, 339
 Metabolic activity, 591
 Metabolic depression, 295
 Metabolic profile, 67
 Metabolic rate, 479, 511
 Metabolic scope, 511
 Metabolism, 43, 99, 131, 433, 611
 Metabolites, 119
 Metal toxicity, 273
 Methionine, 155
 Methodology, 1
 Mice, 527
 Micro-calorimetry, 433
 Microfilariae, 553
 Midgut acidification, 559
 Midgut alkinization, 559
 Midgut pH, 559
 Millipedes, 611
 Mineral, 67
 Mineral, 537, 619
 Molt energetics, 265
 Monoclonal antibody, 347
 Monoglyceride lipase, 55
Morimus funereus, 233
 Mosquitoes, 553
 Motilin, 403
 Motoneurons, 517
 Mucosa, 55
 Muscle, 417
 Muscularis externa, 629
 Mussel, 441

 Mutation, 527
Mytilus edulis (Mollusca), 81

 N-terminal sequence, 225
 Na channel inactivation, 21
 Na currents, 21
 Na⁺/K⁺-ATPase, 565
 Neuropharmacological effects, 387
 Niche segregation, 167
 Nile crocodile, 99
 Nitric oxide, 151
 Nocturnal, 305
 Nonneural (peripheral) tissues, 247
Nucula, 327

 Obesity, 425
 Olfaction, 273
 Omnivorous, 55
 ON/OFF stimuli, 387
 Ontogeny, 601
 Oocyte maturation, 379
 Oogenesis, *Bombyx mori*, 585
 Opioid peptides, 241
 Optic tectum, 387
 Organellar hemoglobin, 487
 Ovarian development, 585
 Ovotransferrin, 347
 Oxygen consumption, 111, 131, 305, 313, 327
 Oxygen consumption rate, 565

Panstrongylus megistus, 143
Paratemia, 123
 Patch clamp, 21
 Peaked pattern, 99
 Penaeid, 417
 Peripheral nervous system, 247
 Phenoloxidase inhibitors, 553
 Phenoloxidase positive hemocytes, 81
Phoca vitulina, 455
 Phosphorus, 537
 Photoperiodism, 179
 Photoperiods, 611
 Physical training, 313
 Physiological model, 131
 Phytic acid, 411
 Pineal, 339
 Plasma calcium, 119
 Plasma enzymes, 119
 Plasma glucose, 119
 Plasma inorganic phosphorus, 119
 Plasma potassium, 601
 Plasma total protein, 119
Platelea leucorodia, 137
³¹P-NMR, 295
 Polyculture, 167
 Polycythemia, 355
 Polyhydroxyalkaloid, 187, 197
 Polymorphism in metabolic response, 233
 Potassium, 339, 537
 Potassium-ATPase, 601
 Pregnancy, 591
 Prenatal undernutrition, 161
 Pressure, 131
Procambarus clarkii, 179
 Progesterone, 527
 Proglumide, 103
 Proliferation, 365
 Prolonged swimming, 1
 Prophenoloxidase cascade, 553
 Prophenoloxidase inhibitors, 553
 Protease, 167
 Protein, 527, 537
 Proteins, 441

- Protein restriction, 161
 Proteoglycan, 463
 Protobranchia, 327
Ptyodactylus, 305
 PTZ-kindling, 241
- Radiochemical assay, 91
Rana esculenta, 29
 Rapid cooling, 517
 Rat, 111
 Rat brain, 241
 Rats, 365, 573
 Red blood cell velocity, 355
 Red seabream, 629
 Reproduction, 75, 321
 Reproductive energetics, 215
 Reptile, 537
 Reptiles, 487
 Resistance, 151
 Respiratory rhythms, 611
 Respirometry, 327
 Resting metabolism, 215
 Rodentia, 479
 Rodents, 511, 619
 Ruminant, 103
- Sacculina carcini*, 327
 Salmonid, 75
 Scope, 285
 Scorpion, 225
 Scorpion toxin, 21
 Scorpion venom, 21
 Scurvy, 75
 Secretagogues, 29
 Serum lipoproteins, 503
 Serum, 339
 Sexual differences, 137
 Shark, 35
 Sheep, 103
 Sheep red blood cell (SRBC) rosetting, 495
 Shore crab *Carcinus*, 565
 Short chain fatty acid, 629
 SHR/N-cp rat, 425
 Skeletal muscle, 295
 Skin blood flow, 355
 Slow skeletal muscle, 111
 Small intestine, 365
Sminthopsis, 59
 SNAT, 179
 Sodium, 339, 537, 601
 Solid-phase radioimmunoassay, 347
 Somatostatin, 403, 591
 Soricidae, 215
 Specific foetal growth velocity, 215
- Spermatozoa, 321
 Spinal cord, 517
 [³H]-Spiperone binding, 161
 Spontaneously hypertensive rats, 355
 Starch, 365, 425, 573
 Structure, 365
 Succinic semialdehyde dehydrogenase, 247
 Sucrase, 55, 425
 Sulfur compounds, 155
 Supercooling, 207
 Supplementation, 119
 Survival, 327
 Susceptibility, 151
 Swainsonine, 187, 197
- Telcost fish, 167
 Temperature, 131, 441
 Tenrecidae, 215
 Testis, 321
 Theophylline, 379
 Thermal hysteresis, 207
 Thermal stress, 233
 Thermoregulation, 305, 479
 Thyroid hormone, 455
Tityus bahiensis, 21
 Toad, 517
 α -Tocopherol, 417
 Torpor bout, 59
 Total proteases, 55
 Transferrin receptor, 347
 Triacylglycerol, 503
Triatoma infestans, 143
 Type II diabetes, 425
- Ultrastructure, 29
 Urea, 67
- Vagus, 35
 Vasculature, 35
 Ventilation, 43, 411
Vit mutant, 585
 Vitamin C, 75
- Water content, 207
 Water turnover, 511
 White spoonbill, 137
 Whole-cell, 21
 Winter sleep, 495
 Wounding by saline injection, 553
- Yolk proteins, 585
- Zinc metabolism, 503
 Zonotrichia, 265

AUTHOR INDEX Vol. 112A, Nos. 1-4

- Abbasi, A., 225
 Agapito, M. T., 179
 Agapito, M. T., 339
 Aguilera, E., 13
 Ali, S. A., 225
 Allen, J. A., 333
 Alston-Mills, B., 527
 Andersen, P. H., 591
 Anderson, S., 527
 Antoniazzi, M. M., 487
 Aoyama, Y., 503
 Arad, Z.
 Asai, M., 241
 Astic, L., 273
 Aulie, A., 99
 Avila, M.-E., 241
- Baccari, G. C., 29
 Baldwin, J., 285
 Banno, Y., 585
 Barboza, P. S., 537
 Barros Neto, T. L. 3
 Barthélème, L., 131
 Bassett, J. M., 601
 Beas-Zarate, C., 16
 Bennett, M. B., 35
 Benz, K., 111
 Bertini, F., 321
 Blom, J. H., 75
 Boccardo, L., 611
 Brauns, D., 527
 Brunner, A., Jr., 487
 Brunggaard, G., 365
 Brunggaard, G.,
- Cahu, C. L., 417
 Canavoso, L. E., 14
 Cano-Martínez, A., 241
 Castro, L. P., 321
 Cezareti, M. L. R., 313
 Chacornac, J. P., 67
 Chaki, K. K., 167
 Charkrabarti, I., 167
 Chaube, S. K., 379
 Chopin, L. K., 3
 Choshniak, I., 511
 Chow, Y.-S., 9
 Collis, S. A., 327
 Cuzon, G., 417
- Dabrowski, 75
 Daló, N. L., 517
 Davenport, J., 33
 Davidoff, R. A., 517
 de le Court, C., 13
 Del Angel Meza, A. R., 161
 Di Matteo, L., 29
 Djordjević, S., 233
 Doira, H., 585
 Doyle, J. E., 123
- Eggum, B. O., 365
 Eggum, B. O., 573
 Eisen, E. J., 527
 Evans, R. W., 347
 Ewert, J.-P.,
- Faye, B., 67
 Fellows, L. E., 187, 197
 Feria-Velasco, A., 161
 Finney, D. A., 355
 Follette, D. B., 4
 Franciolini, F., 21
 Friebe, B., 81
 Frolov, A. V., 441
 Fujikawa, K., 58
- Gani, Md. A., 167
 Gatlin III, D. M., 155
 Geers, C., 111
 Gehrken, U., 207
 Geiser, F., 59
 Gernert, M., 387
 Gibson, K. M., 24
 Grimalt, P. E., 321
 Gros, G., 111
 Gu, S.-H., 91
- Hackman, J. C., 517
 Hadjisterkotis, E., 547
 Haider, S., 379
 Haim, A., 511
 Hammer, C.
 Hanson, C., 601
 Heidemann, G., 455
 Herrero, B., 1
 Hill, C. H., 151
 Hissa, R., 495
 Holloway, J. C., 5
 Huicho, L., 411
- Ivanović, J., 233
- Jakobsen, K., 591
 Janković-Hladni, M., 23
 Jared, C., 487
- Kanui, T. I., 99
 Karjalainen, M., 495
 Kasinski, N., 31
 Kato, S., 103
 Kawaguchi, Y., 585
 Keembiyehetty, C. N., 15
 Kelly, S. T., 355
 Kenney, C. J., 347
 Kihara, M., 6
 Kingsley, D. W., III, 355
 Kite, G. C., 187, 19
 Knight, J. W., 553
 Koelkebeck, K. W., 11
 Koga, K., 585
 Koob, T. J., 463
 Kortner, H., 619
 Koteja, P., 479
 Kotsios, M. M.,
- Lemaire, C., 295
 Leon-Velarde, F., 411
 Lucu, C., 565
 Lyons-Levy, G., 4
- Manca, L., 547
 Martínez Filho, E. E., 31
 Masala, B., 547
- Mason, A. B., 347
 Matamoros-Trejo, G., 2
 Mayorga, L. S., 321
 McIntyre, S. F., 355
 McMahon, B. R., 12
 Medina-Kauwe, L., 247
 Michaelis, O. E., IV, 425
 Miguel, J. L., 17
 Milenov, K., 403
 Miller, M. K., 347
 Milliken, B. K., 355
 Mineo, H.,
 Minucci, S., 29
 Misra, K. K., 167
 Monge-C., C., 411
 Moreno Jr., H., 31
 Moser-Veillon, P. B., 425
 Murphy, M. E., 26
- Naitana, S., 547
 Nash, R. J., 187, 19
 Nayar, J. K., 553
 Nenadović, V., 23
 Nielsen, M. O., 591
- Odom, T. W., 119
 Ohba, J., 629
 Oleinik, V. M., 55
 Onaga, T., 103
 Ortuño-Sahagún, D., 161
- Pablos, M. I., 179
 Pablos, M. I., 339
 Pankov, S. L., 441
 Patel, K. J., 3
 Pavicic, D., 565
 Penteado, C. H. S., 611
 Péqueux, A., 1
 Perez-Gallardo, L., 339
 Petersen, L., 601
 Petris, A.,
 Piçarro, I. C., 313
 Pickering, R. M., 455
 Possani, L. D., 2
 Prestipino, G., 21
 Pullman, E. P., 151
- Quazuguel, P., 417
- Racey, P. A., 215
 Ratovonahary M., 67
 Recio, F., 137
 Recio, J. M., 179
 Recio, J. M., 339
 Regel, R., 559
 Rendell, M. S., 355
 Renwrandt, L.,
 Rivera-Ch, M., 411
 Rubal, A., 511
 Rubiolo, E. R., 1
- Sakata, T., 629
 Sano-Martins, I. S., 487
 Saragoa, M. A. S., 31
 Satterlee, M., 355
 Saucier, D., 27
 Schieltz, P. C., 265

Schleisner, C., 591
Schumacher, U., 455
Schumacher, W., 455
Scofield, A. M., 187,
Sébert, P., 131
Seymour R. S., 285
Shahbazian, A., 403
Shih, J. C. H., 15
Simon, B., 131
Skirnisson, K., 455
Soubre, P., 6
Spaargaren, D. H., 433
Staaland, H., 619
Starcher, B., 1
Stephenson, P. J., 215

Stephenson, R., 295
Sur, R., 167
Surcel, H.-M., 495
Szepesi, B., 425.

Tachibana, S., 103
Takagi, M., 503
Talavera, E., 24
Taylor, A. C., 333
Terando, J. V., 355
Terra, W. R., 559
Thomas, G. S.,
Thomas, S. P., 43
Thurmond, F. A., 463
Tillakaratne, N. J. K., 24

Trequatrin, C., 21
Trotter, J. A., 463

Walker, G., 327
Webb, G. J. W., 285
White, R. G., 619
Witham, P., 187, 19
Woodworth, R. C., 347

Yamini, S., 425
Yin, C.-M., 9
Yoshida, A., 503

Zaidi, Z. H., 225
Zamudio, F. Z., 21

